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NOTES ON THE TERTIARY GEOLOGY AND PALEONTOLOGY OF THE  
SOUTHERN UNITED STATES.

BY PROF. ANGELO HEILPRIN.

*Eocene of Texas.*—In a limited collection of fossils from near the northern border of San Augustine Co., Texas, transmitted to me for examination by the Texas State Geological and Scientific Association, I have been able to determine the following species:—

|                             |                                       |
|-----------------------------|---------------------------------------|
| <i>Ostrea Alabamiensis.</i> | <i>Cardita Blandingi (alticosta).</i> |
| <i>Ostrea sellaformis.</i>  | <i>Crassatella antestriata.</i>       |
| <i>Ostrea divaricata.</i>   | <i>Corbula Texana.</i>                |
| <i>Pecten Deshayesii.</i>   | <i>Buccitriton altile? (Texana).</i>  |
| <i>Anomia?</i>              | <i>Scalaria</i> sp. indet.            |

The horizon represented is evidently the "Claibornian," the deposits probably occupying a position in the "Jacksonian" area.

*The Nummulitic of Florida.*—Prof. G. A. Wetherby, of Cincinnati, has furnished me with a number of rock fragments obtained at a locality some six miles southwest of Gainesville, Fla. They are interesting as containing, in addition to one or more species of *Orbitoides*, several nearly perfect individuals of *Nummulites Floridanus* Heilprin, which, therefore, represent the most northern locality in the State where the members of this group of Foraminifera have thus far been found. They lend further confirmation to the views already advanced by the writer as to the broad extent of the southern Nummulitic formation, and to the relative antiquity of the Floridan peninsula. One considerable fragment of a *Heterostegina* is also represented in the rock.

Since the receipt of Prof. Wetherby's specimens I have been favored, through Mr. Joseph Willcox, of this city, with other fragments from approximately the same locality, Arredonda, Alachua Co., which also contain *Nummulites Floridanus*, *Orbitoides*, and *Operculina rotella* (*O. complanata?*).

*Eocene of Kentucky.*—Mr. R. H. Loughridge has kindly forwarded to me for determination a number of fossils collected by the Geological Survey of Kentucky, from the immediate neighborhood of Paducah. They are mainly in the form of casts in a highly ferruginous and fairly micaceous yellow-white sandstone,

and in the most part recognizable only in so far as the determination of genera is concerned.

The species are referable to the following genera :—

*Mysia*— species probably *M. unguina*.

*Leda*— species probably *L. protecta*.

*Leda*— species indet.

*Nucula*— species probably *N. ovula*.

*Turritella*— species *Turritella Mortoni*.

This is, as far as I am aware, the first notification of the discovery of marine fossils in the Tertiary deposits of the State. The presence of the strongly carinate form of *Turritella Mortoni* fixes pretty definitely the horizon, the Lower Eocene, or that of the older Tertiaries of Maryland and Virginia. This is what we should have expected to find from the position of the strata.